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00826473 **Image available**
INK PRINTING DEVICE

PUB. NO.: 56-146773 A]
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INVENTOR(s): MATSUI SADAYUKI
APPLICANT(s): MITSUBISHI ELECTRIC CORP [000601] (A Japanese Company or Corporation), JP (Japan)
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ABSTRACT

PURPOSE: To enable to effect low voltage control by a method wherein air stream is being injected into an air injecting port at all times during the device is being operated and ink is supplied into a communicating path due to the suction effect of an electrode in a nozzle body having a construction in which the air injecting port and an ink supplying port are communicated with each other.

CONSTITUTION: The nozzle body 100 consisting of an electrically insulating base and the like is formed with a nozzle orifice 1 as the ink jet port at one end face thereof while with the air injecting port 2 at the other end face thereof respectively. The port 2 and the orifice 1 are communicated by the communicating path 3 while the ink supplying port 4 is provided so as to intersect the communicating path 3 perpendicularly. The electrode 7, as an ink sucking means having a protecting layer 8 at the terminal surface thereof, is buried at the opposing position of the supplying port 4. A pulselike voltage is impressed between the electrode 7 and ink 12 to polarize the ink 12 which oozes out into the communicating path 3. Subsequently, an ink droplet is released from the orifice 1 by the air stream from the port 2 to effect printing. EFFECT: The constitution thereof is simple and the device may be miniaturized.